

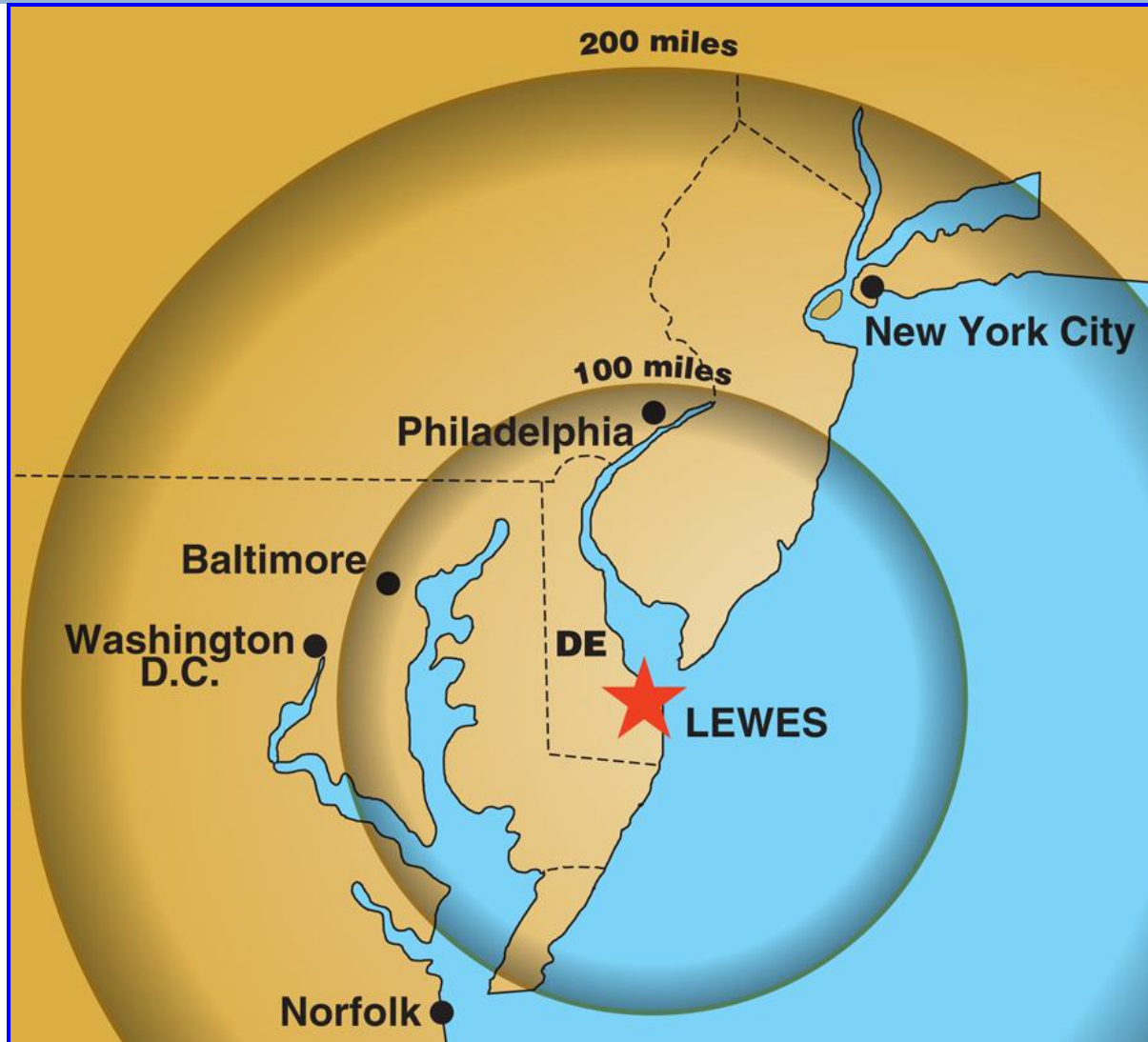
# DELAWARE SEA GRANT PROGRAM 2010 NSGO REVIEW

Dorn Carlson

# Delaware

DE SG

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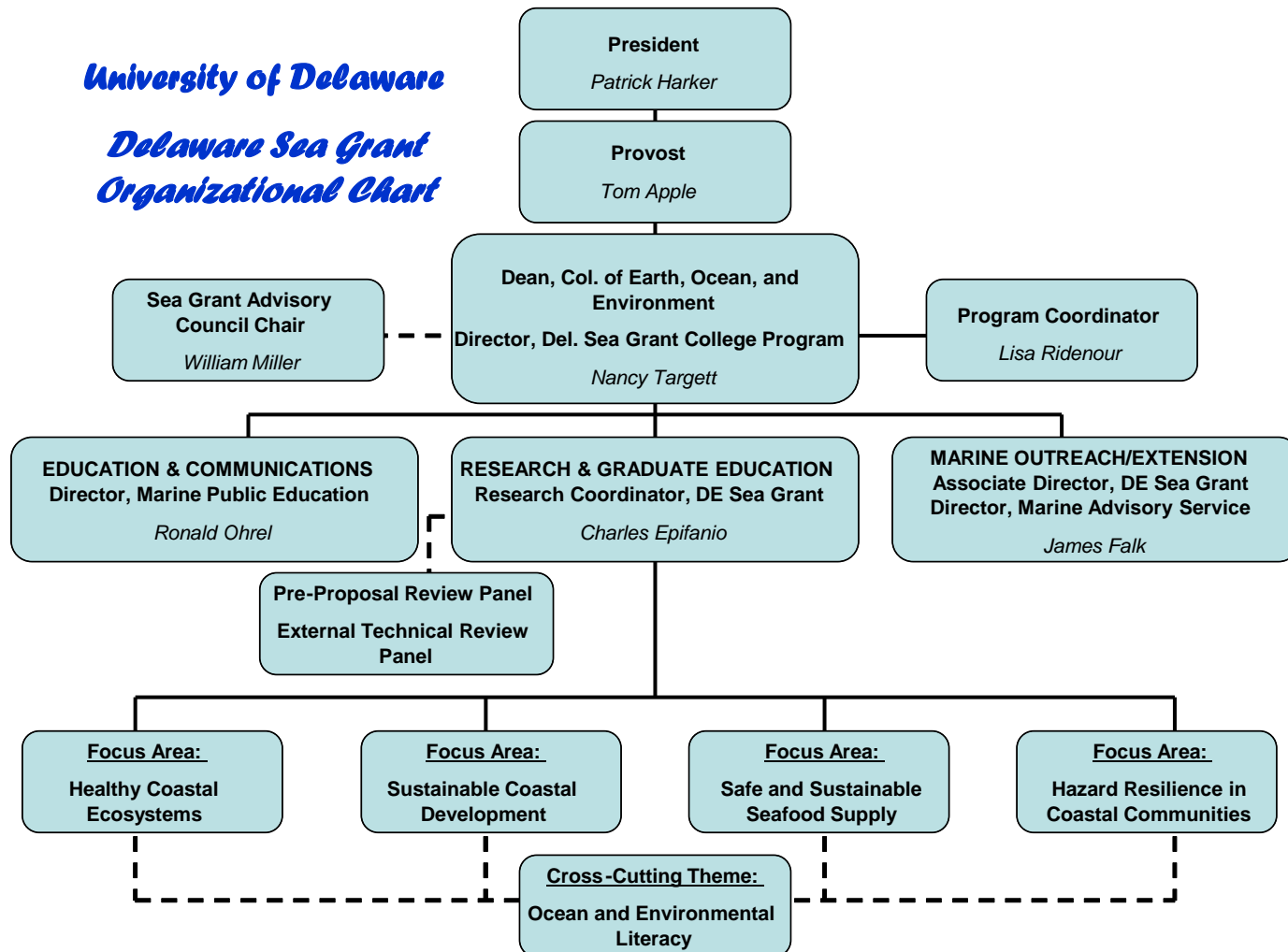
## □ Management Team

- ▣ Director, Nancy Targett, (0.2 FTE)
- ▣ Assoc Director / Director of MAS, James Falk, (1 FTE)
- ▣ Research Coordinator, Charles Epifanio, (0.15 FTE)
- ▣ Director of MPEO, Ron Ohrel (0.5 FTE)
- ▣ Program Coordinator, Lisa Ridenour, (0.6 FTE)

# Program Organizational Chart

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# Extension Program

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- Nancy Targett, *Dean of College of Earth, Ocean, and Environment*
- James Falk, *Director of Marine Advisory Service*
- Wendy Carey, *Coastal Processes Specialist*
- Joseph Farrell, *Resource Management Specialist*
- Doris Hicks, *Seafood Technology Specialist*
- John Ewart, *Aquaculture Specialist*

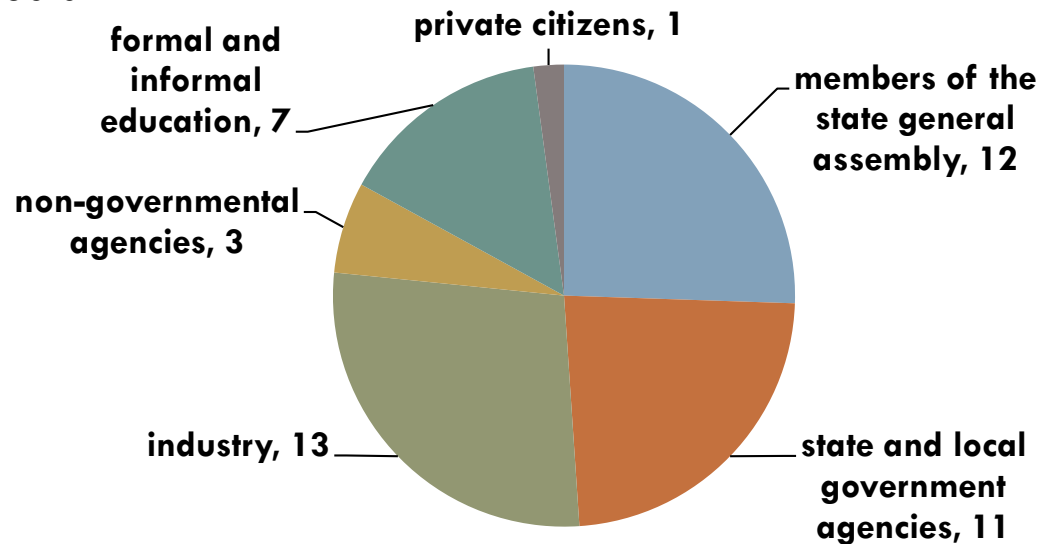
# Program Management – Advisory Board

## Delaware Sea Grant Advisory Council (SGAC)

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- Identify issues and opportunities, assist in long range planning and advice on project selection
- Meet twice a year
- William J. Miller, Jr, Chair  
Chairman, Delaware River and Bay Authority (retired)
- 47 individuals:



# Program Management – Advisory Board (con't) DE SG

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## Advisory Board Members

Ms. Jennifer Adkins , Executive Director  
Partnership for the Delaware Estuary

Mr. Gene R. Bailey, Executive Director  
Diamond State Port Corporation

Hon. Joseph W. Booth  
Delaware State Representative

Mr. Jeff Bundy, Senior Publicist  
WHYY-TV

Hon. George H. Bunting, Jr.  
Delaware State Senator

Hon. V. George Carey  
Delaware State Representative

Ms. Carol R. Collier, Executive Director  
Delaware River Basin Commission

Hon. Dori Connor  
Delaware State Senator

Ms. Sarah W. Cooksey, Program Administrator  
Delaware Coastal Programs  
Dept of Natural Resources and Env Control

Ms. Patricia L. Deptula  
Sussex County Assistant Dir of Public Works

Hon. Bruce C. Ennis  
Delaware State Senator

Mr. Gerard Esposito, President  
Tidewater Utilities Inc.

Ms. Lorraine Fleming, Board Member  
Delaware Nature Society Inc.

Mayor James L. Ford, III  
Mayor of Lewes, Delaware

Mr. Daniel Furlong, Executive Director  
Mid-Atlantic Fishery Management Council

Ms. Jeanie Harper, Secretary-Treasurer  
Dawson's Seafood Inc.

Mr. A. Richard Heffron, Senior VP for Govt Affairs  
Delaware State Chamber of Commerce

Hon. Gerald W. Hocker  
Delaware State Representative

Mr. James T. Johnson Jr., Executive Director  
Delaware River and Bay Authority

Dr. David R. Legates, Associate Professor  
Geography Department, U of Delaware

Mr. Edward A. Lewandowski, Executive Director  
Center for the Inland Bays

Dr. Ann Masse, Safety Health and Env Manager  
DuPont Chamber Works

Hon. David B. McBride  
Delaware State Senator

William Miller, Chairman, retired  
Delaware River and Bay Authority

Mr. Collin O'Mara, Secretary  
Dept of Natural Resources and Env Control

Mr. Gary B. Patterson, Executive Director  
Delaware Petroleum Council

Ms. Betsy Reamer , Executive Director  
Lewes Chamber of Commerce

Mr. Dennis Rochford, President  
The Maritime Exchange for the Delaware River and Bay

Dr. Paul E. Sample, Consultant  
Samples Inc.

Mr. Edward Santoro, Monitoring Coordinator  
Modeling and Monitoring Division  
Delaware River and Basin Commission

Mr. John Schneider, Program Manager  
Watershed Assessment Section, Div of Water Resources  
Dept of Natural Resources and Env Control

Hon. Peter C. Schwartzkopf  
Delaware State Representative

Dr. Janice A. Seitz, Associate Dean and Director  
Cooperative Extension  
U of Delaware College of Agriculture and Nat Resources

Dr. Edward M. Simek, Principal  
Environmental Resources Management Inc.

Hon. F. Gary Simpson  
Delaware State Senator

Hon. Liane Sorenson  
Delaware State Senator

Dr. Halsey Spruance, Executive Director  
Delaware Museum of Natural History

Mr. Douglas Van Rees, President  
Taylor Marine Center

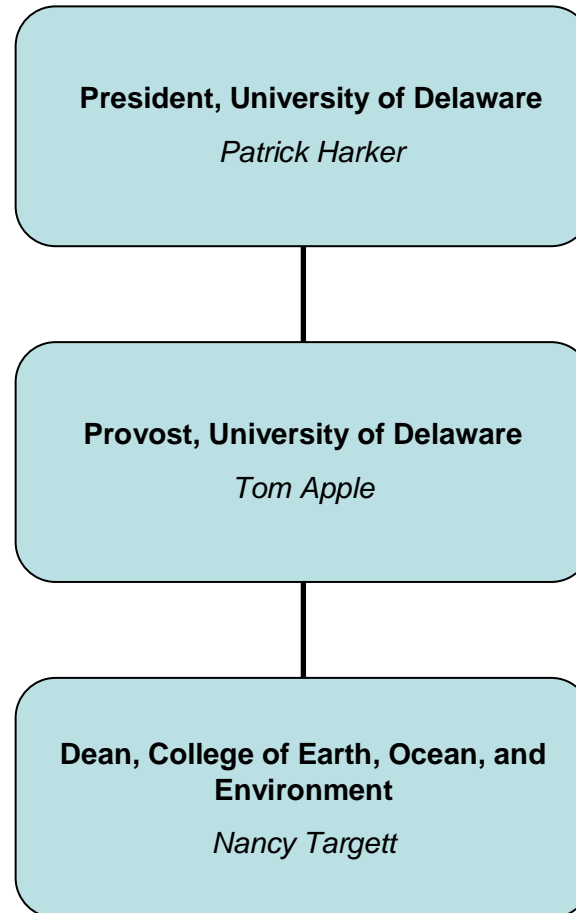
Ms. Katherine Ward, Executive Director  
Delaware Press Association

Mr. Stuart Widom, Senior Environmental Consultant  
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# Institutional Setting

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# State Sea Grant Program Plan Plan – DE SG

## Estimated 4-yr Budget Allocation per focus area

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National Focus Area	Focus Area from Program Strategic Plan	Estimated Level of Effort (%)	Estimated Level of Effort of Federal and Match (\$)	Estimated Level of Effort of Leveraged (\$)
Safe & Sustainable Seafood Supply	Same	14%	\$ 1.16M	(not provided)
Sustainable Coastal Development	Same	27%	\$ 2.27M	
Healthy Coastal Ecosystems	Same	35%	\$ 2.97M	
Hazard Resiliency in Coastal Communities	Same	25%	\$ 2.13M	
	Marine Education, Literacy and Outreach			
Total			\$ 8.53M	

# Performance Measure/Outcome Highlights

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- DE was one of the few programs that was fully approved in the July review. DE alignment package was used as example for other Programs.
- Good clear links between national and Program outcomes, objectives and measures.
- Content of P.M.s much like those of other Programs.

National Plan Performance Measure	State Program Plan Performance Measure	Target
Number of coastal communities and citizens who adopt/implement hazard resiliency practices to prepare for and respond to/minimize coastal hazardous events.	Number of communities incorporating hazard/resiliency considerations into land use planning.	5 Delaware communities.

# Major Partners

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- NOAA
  - ▣ NWS, NMFS, OAR, CSC, Hollings, ORR, OPR, ...
- Delaware
  - ▣ DE Department of N.R. & Env. Control: Div. of F&W; Div. of Water Resources; Div. of Soil/Water Cons.; & State Parks
- Town of...
  - ▣ Dewey Beach, Bethany B., Rehoboth B., Lewes, Milton, Fenwick Island, ...
- University of...
  - ▣ DE, CT, RI, ID, MD, VIMS, WHOI, ...

# 2008/2009 Network Activities <sup>DE SG</sup>

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- HRCC Focus Team (Wendy Carey)
- SCD Focus Team (James Falk)
- 2009 SGA Board (Nancy Targett)
- Mid-Atlantic SG Regional Research and Information Planning (Biliana Cicin-Sain and Nancy Targett)

# 2010 RFP Process

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- DE SG did not run a competition in 2009. They are in the midst of adjusting their funding cycle so they match the rest of the network. They had a competition in 2008 for 2- and 3-year projects.
- In 2010, as part of the funding cycle adjustment they will run a competition for one-year projects that will start 2011.

# 2008/2009 Program Metrics – Awards and Honors

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- Secretary of Interior Salazar and Vice President Biden visited U. Delaware, to recognize the accomplishment of our research group and the state government. Delaware Sea Grant Director Nancy Targett and project Co-PIs Willett Kempton and Jeremy Firestone met with the Secretary and Vice President.
- George Luther's work on iodide as a simple anti-oxidant in kelp was selected among the top 100 stories of the year by Discover magazine in 2008. It was also selected in 2009 by Essential Science Indicators (ESI) of Thomson Reuter for the highest percent increase in total citations in the field of Geosciences over the most recent update period.
- Joe Farrell received a statewide “Friend of TRIO” award for ten years of programs with Delaware Technical and Community College Upward Bound (TRIO) Program.
- Jeremy Firestone was invited to chair the Offshore Wind Power Forum ACORE

# 2008/2009 Highlights of Metrics<sup>DE SG</sup>

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- Near tops in no. of volunteer hours, 12070 (second only to Hawaii)
- Near tops in no. of proposals received, funded (23, 11)

# 2008/2009 Program Impacts

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- The inland bays oyster gardening program lead by Sea Grant has increased to 130 sites (with approximately 185 volunteers) since its inception in 2003. Oysters have been planted at inland bay intertidal locations and natural oyster recruitment has been observed and attributed to oyster gardening activities. Applied field research has documented 49 species of juvenile fish and invertebrates using the floats as habitat.
- Using chemical data and radioisotope chronologies from tidal marsh sediment cores, Sea Grant researchers have determined the burial record of organic and inorganic pollutants introduced to the estuary since the late 1940s. Results indicate a significant decrease starting in the early 1970s. The methods have been adopted by the Delaware River Basin Commission to develop total maximum daily loads for PCBs in the estuary.
- Sea Grant, working with a regional nature-based tourism group developed an on-line survey instrument to survey participants in the 2008 Delmarva Birding Weekend (DBW). Results demonstrate the economic benefits of birding in the region to local officials and community.



## Accomplishments

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- A modeling coupling framework which links a meteorology model, ocean and nearshore models in Delaware Bay has been developed. Provides a necessary building block in the development of a storm surge warning system. Benefits the models in State of Delaware's "Modeling Relevant Physics of Systems for Estimating Risk" (MORPHOS) program.
- Researchers have developed new types of microelectrodes for biogeochemical measurements made at coastal observing systems. Results from the mooring showed that dissolved oxygen concentrations in lower Delaware Bay are above saturation throughout the year. Suitability of the new electrodes fixed moorings has been clearly demonstrated. The Delaware Bay Observing System has been enhanced.

# Best Management Practices

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- the “Extreme” Deep Sea Program
  - ▣ Combines electronic technology, unusual content
  - ▣ 150K students, 2K schools, 10 countries
  - ▣ Concept now passed off to UD Office of Comm
  - ▣ Multiple communication/education awards